TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	31.08.2019	28.09.2019	28 days	8.132	22500	682	30.31	30.28
2	31.08.2019	28.09.2019	28 days	8.140	22500	682	30.31	
3	31.08.2019	28.09.2019	28 days	8.142	22500	680	30.22	

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Authorised Signatory

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Test Report on Cement

TEJUS CONSULTANTS

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	04.09.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	34	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	274	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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Bangalore.

TEJUS
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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	04.09.2019
Period of Soaking	24 hours	Date of Testing	04.09.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	660	680	680	
B	Weight of oven - dry sample gm.	648	672	668	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1692	1703	1703	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.667	2.667	2.651	2.661
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.852	1.190	1.796	1.613

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. N Lokanath Reddy

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	04.09.2019
		Date of Testing	04.09.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	248	248	8.27	91.73	90 - 100
2.36 mm	329	577	19.23	80.77	75 - 100
1.18 mm	423	1000	33.33	66.67	55 - 90
0.600 mm	485	1485	49.50	50.50	35 -59
0.300 mm	705	2190	73.00	27.00	8-30
0.150 mm	624	2814	93.80	6.20	0 - 10
Pan	186	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Bangalore.

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. N Lokanath Reddy	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	04.09.2019
		Date of Testing	04.09.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	272	272	2.72	97.28	95 - 100
10.00 mm	4856	5128	51.28	48.72	25 - 55
4.75 mm	4228	9356	93.56	6.44	0 - 10
Pan	644	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Bangalore.

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. N Lokanath Reddy	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	At Site/Plant		Date of Sampling	04.09.2019	
			Date of Testing	04.09.2019	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	538	538	5.38	94.62	90-100
10.0	4622	5160	51.60	48.40	40-85
4.75	4528	9688	96.88	3.12	0-10
Pan	312	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04.09.2019	11.09.2019	7 days	8.300	22500	452	20.09	20.12
2	04.09.2019	11.09.2019	7 days	8.320	22500	450	20.00	
3	04.09.2019	11.09.2019	7 days	8.325	22500	456	20.27	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04.09.2019	02.10.2019	28 days	8.132	22500	686	30.49	30.25
2	04.09.2019	02.10.2019	28 days	8.140	22500	676	30.04	
3	04.09.2019	02.10.2019	28 days	8.142	22500	680	30.22	

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Bangalore.

Test Report on Cement

TEJUS CONSULTANTS

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	07.09.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	278	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	07.09.2019
Period of Soaking	24 hours	**Date of Testing**	07.09.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	656	676	662	
B	Weight of oven - dry sample gm.	647	666	654	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1688	1701	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.663	2.664	2.648	2.658
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.391	1.502	1.223	1.372

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Bangalore.

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. N Lokanath Reddy

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	07.09.2019
		Date of Testing	07.09.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	231	231	7.70	92.30	90 - 100
2.36 mm	305	536	17.87	82.13	75 - 100
1.18 mm	413	949	31.63	68.37	55 - 90
0.600 mm	484	1433	47.77	52.23	35 -59
0.300 mm	710	2143	71.43	28.57	8-30
0.150 mm	625	2768	92.27	7.73	0 - 10
Pan	232	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Bangalore.

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	Sri. N Lokanath Reddy	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	07.09.2019
		Date of Testing	07.09.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	286	286	2.86	97.14	95 - 100
10.00 mm	4842	5128	51.28	48.72	25 - 55
4.75 mm	4226	9354	93.54	6.46	0 - 10
Pan	646	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. N Lokanath Reddy	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	At Site/Plant		Date of Sampling	07.09.2019	
			Date of Testing	07.09.2019	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	552	552	5.52	94.48	90-100
10.0	4632	5184	51.84	48.16	40-85
4.75	4524	9708	97.08	2.92	0-10
Pan	292	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07.09.2019	14.09.2019	7 days	8.300	22500	450	20.00	20.18
2	07.09.2019	14.09.2019	7 days	8.320	22500	458	20.36	
3	07.09.2019	14.09.2019	7 days	8.325	22500	454	20.18	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07.09.2019	05.10.2019	28 days	8.132	22500	678	30.13	30.28
2	07.09.2019	05.10.2019	28 days	8.140	22500	682	30.31	
3	07.09.2019	05.10.2019	28 days	8.142	22500	684	30.40	

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Bangalore.

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Test Report on Cement

TEJUS CONSULTANTS

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	10.09.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	40	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	280	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.00%	25 % to 35

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